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APPLICATION NO.	FILIN	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/944,116	09/944,116 09/04/2001		Kyeong Jin Kim	8733.450.00	1729
30827	7590	10/29/2003		EXAM	INFR
MCKENNA 1900 K STR		ALDRIDGE LL	BOOTH, RICHARD A		
WASHINGTON, DC 20006				ART UNIT	PAPER NUMBER
				2812	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/944,116	KIM, KYEONG JIN
	Office Action Summary	Examiner	Art Unit
		Richard A. Booth	2812
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet wi	th the correspondence address
THE I Exter after If the If NO Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Inscins of time may be available under the provisions of 37 CPR 1.1 SIX (6) MCNTHS from the mailing date of this communication. Period for reply specified above is less than thing (30 days, a repl reprind for reply specified above is less than thing (30 days, a repl rest or reply within the set or odeneded period for reply will, by statute of the provision of the set	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON , cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on 12.	August 2003 .	
2a)⊠	This action is FINAL. 2b) Th	is action is non-final.	
3) 🗌	Since this application is in condition for allow closed in accordance with the practice under ion of Claims		
	Claim(s) 1-20 is/are pending in the application	1	
	4a) Of the above claim(s)is/are withdra		
	Claim(s) is/are allowed.		
	Claim(s) 1-20 is/are rejected.		
	Claim(s) is/are objected to.		
	Claim(s) are subject to restriction and/o	r election requirement.	
	ion Papers		
9) 🗌	The specification is objected to by the Examine	ır.	
10)	The drawing(s) filed on is/are: a)☐ acce		
	Applicant may not request that any objection to the		
11) 🗌	The proposed drawing correction filed on		isapproved by the Examiner.
	If approved, corrected drawings are required in re		
,	The oath or declaration is objected to by the Ex	aminer.	
-	ınder 35 U.S.C. §§ 119 and 120		
,	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority document		
	2. Certified copies of the priority document		
* 8	 Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	-
14) 🗌 A	acknowledgment is made of a claim for domest	ic priority under 35 U.S.C.	§ 119(e) (to a provisional application
) The translation of the foreign language pro Acknowledgment is made of a claim for domest		
Attachmen	t(s)		
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15 are rejected under 35 USC 102(b) as being anticipated by Kim et al., GB 2.343.012A.

Kim et al. shows the invention as claimed including a multi-domain device, comprising: first and second substrates (31,33); data and gate lines on the first substrate in first and second directions to define a plurality of pixel regions; a pixel electrode 13 in at least one pixel region, having at least one slit pattern 19; a dielectric frame 41 within the pixel regions on the second substrate and formed overlying the common electrode 17 to define a plurality of domains (see page 9, lines 3-7); and a liquid crystal layer between the first and second substrates including a chiral dopant (see page 8, line 7 to page 11, line 12).

Note that the dielectric frame will inherently block at least a portion of the light which is transmitted therethrough.

With respect to claim 2, the TFT is formed on the pixel region which is at a portion between the gate and data lines (see page 1, lines 17-22).

Concerning claims 3-5 and 11-12, note that the dielectric frame can contain BCB or acrylate (see page 3, lines 25-30), a material with a dielectric constant the same or

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smaller than the liquid crystal layer (see page 10, line 27 to page 11, line 2), or carbon black (see page 24, lines 11-18).

With respect to claims 6-8 and 13-14, note the presence of color filter layers 23 and a common electrode 17 on the second substrate, an alignment layer, and phase difference film 29 (see page 12, lines 1-8).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16-20 are rejected under 35 USC 103(a) as being unpatentable over Kim et al., GB 2,343,012A in view of den Boer et al., U.S. Patent 5,656,824.

Kim et al. is applied as above but fails to expressly disclose a U-shaped TFT with a source electrode surrounding the drain electrode in a U shape.

Den Boer et al. discloses a TFT 80 with a U-shaped channel where the drain 24 surrounds the source 22 in a U-shape (see fig. 7 and col. 9-line 40 to col. 10-line 3). Note that a field effect transistor based device is symmetrical so the source and drain are interchangeable. In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Kim et al. so as to form a TFT that is U-shaped because this will eliminate overlay errors which occurred in previous TFT devices.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard A. Booth whose telephone number is 308-3446. The examiner can normally be reached on Monday-Thursday from 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 308-3325. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-1782.

Righard A. Booth

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Primary Examiner Art Unit 2812

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